

REMARKS

Claims 1-30 remain in the application, and all claims have been amended so that they are presented in better US format.

The examiner indicated that claims 5, 6, 14-17, 20, 21 and 25 are withdrawn from consideration as being drawn to non-elected species. By means of the arguments presented below, it is believed that the examiner will agree that generic claim 1 should be allowed, and that claims 5, 6, 14-17, 20, 21 and 25 should thus be permitted back into consideration, and should be considered allowable along with claim 1.

By this amendment the language of claims 1-30 has been clarified as requested by the examiner. These clarifications should remove the objections expressed by the examiner in paragraph 2 of the Office action, as well as correct the rejections expressed by the examiner in paragraph 4 of the Office action.

The examiner's rejection of claims 1, 7 and 9, as expressed in paragraph 6 of the Office action is traversed for the following reasons. In this rejection, the examiner indicates that in Koenigswieser et al valve piston (49) is guided in valve piece (67). This reading of Koenigswieser et al is of necessity incorrect because in Koenigswieser et al the valve piston (49) is never within valve piece (67). As can be seen in figure 2 of Koenigswieser et al, element (65) is positioned within valve piece (67), not valve piston (49). Column 5, lines 25-31 of the specification of Koenigswieser et al support this by saying that second intermediate piston (65) is guided in an axial bore of tube neck (67). Accordingly, it is incorrect for the examiner to say that the valve piston (49) is guided within valve piece (67).

As an alternative for expressing the above, since the first intermediate piston (61) of Koenigswieser et al does not extend into tube neck (67), it can not be guided by the tube neck (67).

Another important difference between the claimed invention and the structure of Koenigswieser et al is that the booster piston (29) of Koenigswieser et al does not guide the first intermediate piston (61). Koenigswieser et al indicate that there is an annular space (63) between the booster piston (29) and the first intermediate piston (61). See Koenigswieser et al at column 5 lines 15-20. Only at the upper part of the booster piston (29) is there a local tapering of the axial bore (47). Thus, it cannot properly be said that booster piston (29) provides a guide function for intermediate piston (61), as annular space (63) precludes such a guidance function. Thus, the booster piston (29) is not able to guide the first intermediate piston (61) in a way so that it is coaxial with the valve needle (59).

Thus, Koenigswieser et al simply does not deal with the problem that is solved by the invention of this application. Figure 2 of Koenigswieser et al might show the same hydraulic functions for an injector as applicants', but Koenigswieser et al does not teach the structure as claimed by applicants to better achieve such functions.

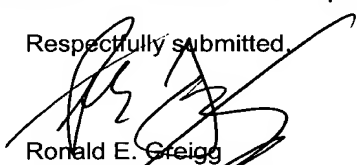
With regard to claim 7, it is noted that this claim adds particular dimensions of the guide sleeve (16) so that it cooperates properly with a nozzle spring (18). This structure again is not shown or taught by Koenigswieser et al. Koenigswieser et al does not have anything like a spring which would cooperate with the guide sleeve (16), and so claim 7 defines structure which is not taught by Koenigswieser et al.

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This relationship in the structure recited in the claims is different from that of Koenigswieser et al in that in applicants' structure, guide sleeve (16) travels with, and makes the same movements as the nozzle needle, because the nozzle spring (18) presses it towards the nozzle needle (14).

Entry of this amendment, and allowance of the claims are respectfully solicited.

Respectfully submitted,



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